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TITLE: OPTICAL INFORMATION RECORDING MEDIUM AND
METHOD FOR RECORDING ONTO THE MEDIUM
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ABSTRACT:

PROBLEM TO BE SOLVED: To provide a rewritable optical information recording medium which has the same capacity with that of a DVD-ROM and has excellent recording characteristics in high-linear-speed recording and superior storage stability, and to provide a method for recording onto the medium.

SOLUTION: On a transparent substrate 1, a 1st dielectric layer 2, a phase change recording layer 3, a 2nd dielectric layer 4, and a metal reflecting

layer 6 are deposited by sputtering in this order and a 3rd dielectric layer 5 is deposited of a material other than sulfide between the 2nd dielectric layer and the metal reflecting layer. When optical information is recorded on the thus obtained optical information recording medium, a recording pulse train of a plurality of on pulses and off pulses is used as the emission waveform of laser beam and the recording frequency is varied continuously from the inner periphery to the outer periphery or vice versa according to a recording radial position; and parts where the widths of the on pulses are all fixed with the same time constant and parts where a window width is multiplied by a constant are successively combined.

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